

# Delo® Gold Multigrade

Multifunctional Diesel Engine Oil



## Product description

**Delo® Gold Multigrade** is a high performance, multigrade, heavy-duty diesel engine oil specifically designed to lubricate a wide range of diesel engines requiring API CH-4 performance lubricants. Formulated with ISOSYN® technology.

## Customer benefits and product features

### Customer benefits

- **Reduces fleet maintenance costs**

ISOSYN® technology, including a combination of high performance hydrocracked base fluids and specially balanced metallic detergent and ashless dispersant additive system, provides excellent overall engine cleanliness in all service conditions. ISOSYN® technology also confers the high degree of soot dispersancy required to maintain oil drain intervals in diesel engines. Exceptional oxidation stability protects against the formation of gums and varnish at elevated temperatures.

- **Prolongs engine life**

High efficiency dispersant combination plus proven metallo-organic anti-wear additive system provides excellent protection against wear of critically loaded components under all operating conditions. Multigrade viscosity provides additional protection against wear at start-up and under high temperature operating conditions.

- **Preserves full power and performance**

Outstanding metallic detergent additive system preserves full power and performance by providing excellent upper-ring-belt deposit control under the high temperatures encountered in turbocharged diesel engines.

- **Saves on inventory costs**

Mid-ash, higher dispersancy formulation provides excellent overall performance in mixed fleets of different engine designs, allowing fewer oils to be stored and reducing the chance of problems arising through product misapplication.

## Applications

- Mixed fleets of diesel engines (high speed, four-stroke, turbocharged or naturally aspirated)
- Four-stroke gasoline engines in mixed fleets of both diesel and gasoline engines
- Commercial road transport
- Off-highway vehicles and plant
- Agricultural tractors and farm machinery
- High speed diesel engines in marine service (e.g., fishing boat, river transport)
- Generator sets
- Mobile hydraulic systems (where oil type and viscosity are appropriate)

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## Product approvals, performance, and recommendations

### Performance standards

- API CH-4
- API SJ (SAE 15W-40)

### Suitable for use in applications requiring following quality oils:

- API CG-4, CF-4, CF
- Cummins CES 20071, 72 (SAE 15W-40)
- Mack WO-M Plus, EO-M, EO-L (SAE 15W-40)
- Volvo VDS (SAE 15W-40)

## Service Considerations

For vehicles fitted with diesel particulate filters (DPFs), Delo 400 MGX or Delo 400 SLK should be selected in accordance with the manufacturer's recommendations. The use of these low SAPS (sulfated ash, phosphorus and sulfur) products will maximize intervals between filter cleaning.

While modest by typical heavy duty diesel standards, Delo Gold Multigrade has a level of phosphorus higher than permitted by certain recent standards for passenger car motor oils, e.g. ILSAC GF-5, and the ACEA "C" standards. Optimum life of catalytic emission control systems will be achieved by using oils of the performance standard recommended by the vehicle manufacturer.

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## Typical test data

DELO® GOLD MULTIGRADE	TEST METHODS	RESULTS		
<b>SAE Grade</b>		<b>10W-30</b>	<b>15W-40</b>	<b>20W-50</b>
<b>Product Code</b>		<b>500636</b>	<b>500637</b>	<b>500638</b>
Base No., mg KOH/g	ASTM D2896	10.4	7.5	7.5
Viscosity,				
mm <sup>2</sup> /s @ 100°C	ASTM D445	12.2	14.4	18.2
mm <sup>2</sup> /s @ 40°C	ASTM D445	82	104	150
Viscosity Index	ASTM D2270	144	142	134
Flash Point, COC, °C	ASTM D92	232	237	237
Pour Point, °C	ASTM D97	-39	-39	-39

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the Product Information Center.

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